

CLAIMS

What is claimed is:

1. A generator unit for tractors comprising:
a housing non-rotationally being connectable to a component of a tractor;
an input shaft being rotationally supported in the housing, said input shaft connectable to a power take-off shaft of the tractor;
an electrical generator including a stator and a rotor, said rotor is drive-wise connected to and driven by the input shaft, said electrical generator coupled with the housing;
and
the electrical generator driving electrical loads of the tractor or of an agricultural device.
2. The generator unit according to claim 1, wherein an output shaft being drive-wise connected to the input shaft and connectable to the drive shaft of an agricultural device.
3. The generator according to Claim 2, wherein the input shaft and the output shaft are formed as a unified component.
4. The generator according to Claim 2, wherein the output shaft has an end which can be connected to an agricultural device, which has a profile same as the power take-off shaft of the tractor.

5. The generator unit according to Claim 2, wherein a gear is provided between the input shaft and the rotor of the electrical generator.

6. A generator unit for agricultural devices comprising:
a housing non-rotationally being connectable to a component of the agricultural device;

a hydraulic motor being connectable to a hydraulic pressure source of the agricultural device and being driven by the hydraulic pressure source;

an electrical generator having a stator and a rotor, said rotor is drive-wise connected to and driven by the hydraulic motor, said electrical generator connected to the housing, and the electrical generator driving electrical loads of the agricultural device.

7. The generator unit according to Claim 1, wherein the electrical generator is a generator with a nominal voltage of 42 Volts.

8. A drive system for agricultural devices having a generator unit according to Claim 1, comprising:

electrical motors which are fed with electrical energy from the electrical generator and by which working units of the agricultural devices are driven.

9. The generator unit according to Claim 6, wherein the electrical generator is a generator with a nominal voltage of 42 Volts.

10. A drive system for agricultural devices having a generator unit according to Claim 6, comprising:

electrical motors which are fed with electrical energy from the electrical generator and by which working units of the agricultural devices are driven.